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 **1 Formal interpreters for diagram notations**

 Luciano Baresi, Mauro Pezzè

January 2005 **Transactions on Software Engineering and Methodology (TOSEM)**

Publisher: ACM 

Full text available:  [Pdf](#) (834.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 119, Citation Count: 4

The article proposes an approach for defining extensible and flexible formal interpreters for diagram notations with significant dynamic semantics. More precisely, it addresses semi-formal notations that have precisely-defined syntax, but informally ...

Keywords: Semi-formal notations, graph transformation, high-level Petri nets, semi-formal methods, diagram notations, formal interpretation

 **2 Formal verification in hardware design: a survey**

 Christoph Kern, Mark R. Greenstreet

April 1999 **Transactions on Design Automation of Electronic Systems (TODAES)**

Publisher: ACM 

Full text available:  [Pdf](#) (411.53 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 341, Citation Count: 18

In recent years, formal methods have emerged as an alternative approach to ensure the correctness of hardware designs, overcoming some of the limitations of traditional verification methods such as simulation and testing. There are two ...

Keywords: case studies, formal methods, formal verification, hardware verification, model containment, model checking, survey, theorem proving

 **3 A brief survey of program slicing**

 Baowen Xu, Ju Qian, Xiaofang Zhang, Zhongqiang Wu, Lin Chen

March 2005 **SIGSOFT Software Engineering Notes**, Volume 30 Issue 2

Publisher: ACM

Full text available:  [Pdf](#) (535.10 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Bibliometrics: Downloads (6 Weeks): 57, Downloads (12 Months): 567, Citation Count: 11

Program slicing is a technique to extract program parts with respect to some specific criteria. Weiser first proposed the notion of slicing in 1979, hundreds of papers have been published since then. Tens of variants of slicing have been studied, ...

Keywords: debugging, dependence analysis, pointer analysis, program analysis, program slicing

◆ Requirements interaction management

William N. Robinson, Suzanne D. Pawlowski, Yevgeniy Volkov

June 2003 **Computing Surveys (CSUR)**, Volume 35 Issue 2

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (1.24 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 75, Downloads (12 Months): 693, Citation Count: 6

Requirements interaction management (RIM) is the set of activities directed toward management, and disposition of critical relationships among sets of requirements, a critical area of requirements engineering. This survey ...

Keywords: KAOS, KATE, Oz, Requirements engineering, Telos, WinWin, analysis and system, deficiency driven design, dependency analysis, distributed intentionality, integrated software cost reduction (SCR), system architecture, system specification, viewpoint

5 CCured: type-safe retrofitting of legacy software

◆ George C. Necula, Jeremy Condit, Matthew Harren, Scott McPeak, Westley Weimer
May 2005 **Transactions on Programming Languages and Systems (TOPLAS)**

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (613.66 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 133, Citation Count: 30

This article describes CCured, a program transformation system that adds type safe annotations to existing C programs. CCured attempts to verify statically that memory errors cannot be detected by run-time checks where static verification is ...

Keywords: Memory safety, libraries, pointer qualifier, subtyping

6 Communications of the ACM: Volume 52 Issue 4

◆ April 2009 **Communications of the ACM**

Publisher: ACM

Full text available: [Digital Edition](#), [PDF](#) (7.58 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 1120, Downloads (12 Months): 1717, Citation Count: 1

7 GPGPU: general purpose computation on graphics hardware

◆ David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Lefohn

August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (63.03 MB) Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 286, Downloads (12 Months): 1516, Citation Count: 1

The graphics processor (GPU) on today's commodity video cards has evolved into a fast and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex ...

8 Fast compiler optimisation evaluation using code-feature based performance prediction

◆ Christophe Dubach, John Cavazos, Björn Franke, Grigori Fursin, Michael F.P. O'Boyle, Fabrice Pautet

May 2007 **CF '07: Proceedings of the 4th international conference on Computing frontiers in information and services**

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (409.50 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 60, Citation Count: 2

Performance tuning is an important and time consuming task which may have to be new application and platform. Although iterative optimisation can automate this pro many executions of different versions of the ...

Keywords: architecture, artificial neural networks, compiler optimisation, learning, performance modelling

9 [Dynamic metrics for java](#)

 Bruno Dufour, Karel Driesen, Laurie Hendren, Clark Verbrugge

November 2003 **OOPSLA '03**: Proceedings of the 18th annual ACM SIGPLAN conference on programming, systems, languages, and applications

Publisher: ACM 

Full text available:  Pdf (222.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 141, Citation Count: 25

In order to perform meaningful experiments in optimizing compilation and run-time researchers usually rely on a suite of benchmark programs of interest to the optimiz under consideration. Programs are described as *numeric*, ...

Keywords: Java, dynamic metrics, execution traces, optimization, profiling, program metrics

Also published in:

November 2003 **SIGPLAN Notices** Volume 38 Issue 11

10 [How is aliasing used in systems software?](#)

 Brian Hackett, Alex Aiken

November 2006 **SIGSOFT '06/ FSE-14**: Proceedings of the 14th ACM SIGSOFT international conference on Foundations of software engineering

Publisher: ACM 

Full text available:  Pdf (283.25 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 63, Citation Count: 6

We present a study of all sources of aliasing in over one million lines of C code, iden the common patterns of aliasing that arise in practice. We find that aliasing has a gr in real programs and that just nine ...

Keywords: aliasing, program analysis, satisfiability

11 [Document structure](#)

Richard Power, Donia Scott, Nadjet Bouayad-Agha

June 2003 **Computational Linguistics**, Volume 29 Issue 2

Publisher: MIT Press

Full text available:  Pdf (498.41 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 75, Citation Count: 9

We argue the case for abstract document structure as a separate descriptive level in generation of written texts. The purpose of this representation is to mediate between text (i.e., its discourse structure) and its ...

12 [interactions: Volume 15 Issue 1](#)

 January 2008 **interactions**

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf \(9.79 MB\)](#) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 314, Downloads (12 Months): 1576, Citation Count: 1

13 Real-time shading

 [Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Miller](#)
August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**

Publisher: ACM 

Full text available:  [Pdf \(7.39 MB\)](#) Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 75, Downloads (12 Months): 652, Citation Count: 1

Real-time procedural shading was once seen as a distant dream. When the first version was offered four years ago, real-time shading was possible, but only with one-of-a-kind combining the effects of tens to hundreds of rendering ...

14 Communications of the ACM: Volume 52 Issue 2

 February 2009 **Communications of the ACM**

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf \(7.09 MB\)](#) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 653, Downloads (12 Months): 2835, Citation Count: 1

15 Spoken dialogue technology: enabling the conversational user interface

 [Michael F. McTear](#)

 March 2002 **Computing Surveys (CSUR)** , Volume 34 Issue 1

Publisher: ACM 

Full text available:  [Pdf \(987.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 84, Downloads (12 Months): 715, Citation Count: 25

Spoken dialogue systems allow users to interact with computer-based applications as easily as they interact with expert systems by using natural spoken language. The origins of spoken dialogue systems date back to Artificial Intelligence research in the ...

Keywords: Dialogue management, human computer interaction, language generation, natural language processing, speech understanding, speech recognition, speech synthesis

16 Communications of the ACM: Volume 52 Issue 3

 March 2009 **Communications of the ACM**

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf \(7.04 MB\)](#) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 749, Downloads (12 Months): 2299, Citation Count: 1

17 The KScalar simulator

 [J. C. Moure, Dolores I. Rexach, Emilio Luque](#)

 March 2002 **Journal on Educational Resources in Computing (JERIC)** , Volume 2 Issue 1

Publisher: ACM 

Full text available:  [Pdf \(493.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 80, Citation Count: 1

Modern processors increase their performance with complex microarchitectural mechanisms that makes them more and more difficult to understand and evaluate. KScalar is a graph-based simulator that facilitates the study of such processors. It allows ...

Keywords: Education, pipelined processor simulator

18 Communications of the ACM: Volume 51 Issue 9

 September 2008 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (8.68 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 561, Downloads (12 Months): 3940, Citation Count: 1

19 Level set and PDE methods for computer graphics

 David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker

August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**

Publisher: ACM 

Full text available:  Pdf (17.07 MB) Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 304, Downloads (12 Months): 1083, Citation Count: 1

Level set methods, an important class of partial differential equation (PDE) methods for surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. with preparatory material that introduces the ...

20 interactions: Volume 15 Issue 6

 November 2008 interactions

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.15 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 128, Downloads (12 Months): 850, Citation Count: 0

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